

* * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * * *

| | | |
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| NEWS 2 | Apr 08 "Ask CAS" for self-help around the clock | |
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| NEWS 5 | Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN | |
| NEWS 6 | Aug 26 Sequence searching in REGISTRY enhanced | |
| NEWS 7 | Sep 03 JAPIO has been reloaded and enhanced | |
| NEWS 8 | Sep 16 Experimental properties added to the REGISTRY file | |
| NEWS 9 | Sep 16 CA Section Thesaurus available in CAPLUS and CA | |
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| NEWS 11 | Oct 24 BEILSTEIN adds new search fields | |
| NEWS 12 | Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN | |
| NEWS 13 | Nov 18 DKILIT has been renamed APOLLIT | |
| NEWS 14 | Nov 25 More calculated properties added to REGISTRY | |
| NEWS 15 | Dec 04 CSA files on STN | |
| NEWS 16 | Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date | |
| NEWS 17 | Dec 17 TOXCENTER enhanced with additional content | |
| NEWS 18 | Dec 17 Adis Clinical Trials Insight now available on STN | |
| NEWS 19 | Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC | |
| NEWS 20 | Feb 13 CANCERLIT is no longer being updated | |
| NEWS 21 | Feb 24 METADEX enhancements | |
| NEWS 22 | Feb 24 PCTGEN now available on STN | |
| NEWS 23 | Feb 24 TEMA now available on STN | |
| NEWS 24 | Feb 26 NTIS now allows simultaneous left and right truncation | |
| NEWS 25 | Feb 26 PCTFULL now contains images | |
| NEWS 26 | Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results | |
| NEWS 27 | Mar 19 APOLLIT offering free connect time in April 2003 | |
| NEWS 28 | Mar 20 EVENTLINE will be removed from STN | |
| NEWS 29 | Mar 24 PATDPAFULL now available on STN | |
| NEWS 30 | Mar 24 Additional information for trade-named substances without structures available in REGISTRY | |
| NEWS 31 | Apr 11 Display formats in DGENE enhanced | |
| NEWS 32 | Apr 14 MEDLINE Reload | |
| NEWS 33 | Apr 17 Polymer searching in REGISTRY enhanced | |
| NEWS 34 | Apr 21 Indexing from 1947 to 1956 being added to records in CA/CAPLUS | |
| NEWS 35 | Apr 21 New current-awareness alert (SDI) frequency in WPIDS/WINDEX/WPIX | |
| NEWS EXPRESS | April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 | |
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| NEWS INTER | General Internet Information | |
| NEWS LOGIN | Welcome Banner and News Items | |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN | |
| NEWS WWW | CAS World Wide Web Site (general information) | |

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FILE COVERS 1907 - 25 Apr 2003 VOL 138 ISS 18
FILE LAST UPDATED: 24 Apr 2003 (20030424/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s hide
      9430 HIDE
      6357 HIDES
L1      12609 HIDE
          (HIDE OR HIDES
```

=> s super absorbent polymer
48770 SUPER
12 SUPERS
48781 SUPER
(SUPER OR SUPERS)
31336 ABSORBENT
16364 ABSORBENTS
37811 ABSORBENT
(ABSORBENT OR ABSORBENTS)
890748 POLYMER
753199 POLYMERS
1216365 POLYMER
(POLYMER OR POLYMERS)
L2 106 SUPER ABSORBENT POLYMER
(SUPER (W) ABSORBENT (W) POLY

=> S 11 and 12
L3 0 L1 AND L2

=> s methacryl? or acryl?
 221697 METHACRYL?
 384770 ACRYL?
 L4 489638 METHACRYL? OR ACRYL?

=> s 11 and 14
 L5 310 L1 AND L4

=> s 14 not acrylonitrile
 81348 ACRYLONITRILE
 920 ACRYLONITRILES
 81607 ACRYLONITRILE
 (ACRYLONITRILE OR ACRYLONITRILES)
 L6 408031 L4 NOT ACRYLONITRILE

=> del 16 y

=> s 15 not acrylonitrile
 81348 ACRYLONITRILE
 920 ACRYLONITRILES
 81607 ACRYLONITRILE
 (ACRYLONITRILE OR ACRYLONITRILES)
 L6 283 L5 NOT ACRYLONITRILE

=> s 16 and (sodium chloride or nacl)
 846642 SODIUM
 34 SODIUMS
 846652 SODIUM
 (SODIUM OR SODIUMS)
 924204 CHLORIDE
 143229 CHLORIDES
 991937 CHLORIDE
 (CHLORIDE OR CHLORIDES)
 97316 SODIUM CHLORIDE
 (SODIUM (W) CHLORIDE)
 249054 NACL
 2 NACLS
 249055 NACL
 (NACL OR NACLS)
 L7 17 L6 AND (SODIUM CHLORIDE OR NACL)

=> d 17 1-17 all

L7 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 2000:646192 CAPLUS
 DN 133:239692
 TI Use of superabsorbent polymers for treating **hides**, corresponding compositions and methods and resulting treated **hides**
 IN Brosse, Jacques; Sabatier, Bernard
 PA Snf S.A., Fr.
 SO PCT Int. Appl., 58 pp.
 CODEN: PIXXD2
 DT Patent
 LA French
 IC ICM C14C001-02
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PI | WO 2000053816 | A1 | 20000914 | WO 2000-FR553 | 20000306 |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, | | | | |

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 FR 2790767 A1 20000915 FR 1999-3139 19990311
 FR 2790767 B1 20010608
 EP 1161565 A1 20011212 EP 2000-909434 20000306
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 BR 2000008855 A 20011226 BR 2000-8855 20000306
 PRAI FR 1999-3139 A 19990311
 WO 2000-FR553 W 20000306

AB The invention concerns the use of superabsorbent (co) polymers or SAP such as Aquasorb 3005 KL (crosslinked **acrylamide-acrylate** copolymer) as treating agent for preserving animal **hides**. The SAP is preferably used in combination with salt or another hygroscopic agent, in particular 50% **NaCl**/50% SAP. The invention enables to obtain properly treated **hides** in only 24 h and to use twice less salt than in prior art, while eliminating all the major drawbacks such as surface brine and salt in slaughter house waste.

ST superabsorbent polymer **hide** preservative; crosslinked **acrylamide-acrylate** copolymer preservative **hide**

IT **Hide**
 Preservatives
 Superabsorbents
 (use of superabsorbent polymers for preservation of **hides**)

IT 79-06-1D, **Acrylamide**, crosslinked polymers with **acrylates** 79-10-7D, **Acrylic acid, esters, crosslinked polymers with acrylamide** 2439-35-2D, **Dimethylaminoethyl acrylate, crosslinked polymers with acrylamide**, chloromethylated 2867-47-2D, **Dimethylaminoethyl methacrylate, crosslinked polymers with acrylamide**, chloromethylated 33882-67-6, Aquasorb PR 3005A 293301-73-2, Aquasorb 3005KL 293301-75-4, Aquasorb 3005KM
RL: NUU (Other use, unclassified); **USES (Uses)**
 (use of superabsorbent polymers for preservation of **hides**)

RE.CNT 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

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- (11) Anon; US 4732968 A 1988 CAPLUS
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- (17) Anon; CN 1049527 A 1991 CAPLUS
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(60) Anon; AT 124727 T 1995
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V70, P84

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 (87) Rhone Poulen Chimie; EP 0410862 A 1991 CAPLUS
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L7 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1992:131549 CAPLUS
 DN 116:131549
 TI Crosslinking of collagen with **acrylamide** derivatives. II.
 N,N'-methylenebisacrylamide and higher homologs
 AU Feairheller, S. H.; Scholnick, F.; Ying, Li
 CS East. Reg. Res. Cent., ARS, Philadelphia, PA, 19118, USA
 SO *Journal of the American Leather Chemists Association* (1991), 86(5), 171-8
 CODEN: JALCAQ; ISSN: 0002-9726
 DT Journal
 LA English
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 AB Two sym. derivs. of **acrylamide**, i.e. N,N'-methylenebisacrylamide and N,N'-ethylenebisacrylamide crosslinked **hide** collagen and, with proper control of the reaction conditions, served as tanning agents. The reactions took place under alk. conditions and swelling was controlled by addn. of Na₂SO₄. Shrinkage temps. >80° were obtained and the products exhibited good resistance to chem. and enzymic attack. The products were made into white leather on a small scale.
 ST bisacrylamide crosslinking collagen; tanning agent methylenebisacrylamide
 IT Tanning materials
 (alkylenebisacrylamides, crosslinking of collagens in relation to)
 IT Crosslinking agents
 (alkylenebisacrylamides, for collagens)
 IT Collagens, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (crosslinking of, with alkylenebisacrylamides)
 IT 7647-14-5, **Sodium chloride** (NaCl),
 miscellaneous 7757-82-6, Sulfuric acid disodium salt, miscellaneous
 7778-80-5, Sulfuric acid dipotassium salt, miscellaneous
 RL: MSC (Miscellaneous)
 (alkylenebisacrylamide-crosslinked **hide** collagen swelling
 controlled by addn. of)
 IT 110-26-9, Methylenebisacrylamide 2956-58-3, Ethylenebisacrylamide
 RL: USES (Uses)
 (crosslinking of collagen with, tanning agents in relation to)

L7 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1990:79857 CAPLUS
 DN 112:79857
 TI Manufacture of leather from fish skins
 AU Alfaro, Pedro Herrera
 CS Esc. Quim., Univ. Costa Rica, San Jose, 2060, Costa Rica
 SO Ingenieria y Ciencia Quimica (1988), 12(1-2), 18-20
 CODEN: ICQUD9; ISSN: 0250-8303

DT Journal
 LA Spanish
 CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
 AB Fresh **hides** of *Coryphaena hippurus* (Dorado fish) were cleaned and soaked for 300 h in a surfactant-water bath, the scales were mech. removed, tanned in HCO_2H -Baychron A-**NaCl**- Na_2CO_3 - H_2O baths at pH 3.2-3.5 for 1 h intervals with rinsing in between. The leather pieces were dried in air at ambient temp. for 3-4 days, the softened mech., retanned in a surfactant-Blancotan SN-mimosa-quebracho-water baths, dyed, dried, and finished with polyurethane or **acrylic** coatings. The leather has a nice scale design, natural finish look, and good mech. properties; the uniformity of articles depends on the variability of the size of pieces available.
 ST Dorado fish leather manuf; *Coryphaena hippurus* leather tanning coating; mimosa quebracho retanning Dorado leather; polyurethane **acrylic** coating Dorado leather; formic acid tanning fish leather
 IT Leather
 (from *Coryphaena hippurus*, manuf. and characteristics of)
 IT *Coryphaena hippurus*
 (leather manuf. from **hide** of, process and product characteristics in relation to)

L7 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1989:233597 CAPLUS

DN 110:233597

TI Chrome-free, rapidly rewettable, biologically stabilized **hides** and their manufacture

IN Gaveno, Gerard; Vulliermet, Bernard; Haran, Raymond; Gervais, Michele

PA Centre Technique Cuir Chaussure Maroquinerie, Fr.

SO Fr. Demande, 12 pp.

CODEN: FRXXBL

DT Patent

LA French

IC ICM C14C009-00

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|-------------|----------|----------------|-----------------|----------|
| PI | FR 2610643 | A1 | 19880812 | FR 1987-2035 | 19870211 |
| | FR 2610643 | B1 | 19890512 | | |
| | IN 172177 | A | 19930424 | IN 1988-DE76 | 19880129 |
| | ZA 8800692 | A | 19880928 | ZA 1988-692 | 19880201 |
| | CA 1299822 | A1 | 19920505 | CA 1988-557913 | 19880202 |
| | AU 8811484 | A1 | 19880818 | AU 1988-11484 | 19880210 |
| | AU 613338 | B2 | 19910801 | | |
| | JP 63202700 | A2 | 19880822 | JP 1988-27802 | 19880210 |
| | EP 281486 | A1 | 19880907 | EP 1988-420039 | 19880210 |
| | EP 281486 | B1 | 19910313 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | | |
| BR 8800542 | A | 19880927 | BR 1988-542 | 19880210 | |
| AT 61634 | E | 19910315 | AT 1988-420039 | 19880210 | |
| PRAI FR 1987-2035 | | 19870211 | | | |
| EP 1988-420039 | | 19880210 | | | |

AB Biol. stabilized **hides**, which are resistant to microbial degrdn., readily undergo posttreatment wetting in <1 h, and useful for leather clothing, are prep'd. The **hide** has moisture content 15-20%, max. mineral content $10 \pm 2\%$, **acrylic** resin content 2%, and contains $85 \pm 3\%$ dermal material. The **hide** is delimed, pickled in the presence of an **acrylic** resin, pretanned in the presence of Al salts, and treated with a polyhydric alc., fatty alc. ethoxylate, or ethoxylated alkylphenol to facilitate rapid rewetting.

ST rewettable chrome free **hide** manuf; biol stabilized microbial resistance **hide**; ethoxylated fatty alc treated **hide**; alkylphenol ethoxylated treated **hide**

IT **Hide**
(biol. stabilized, with rapid rewettability)

IT **Acrylic** polymers, uses and miscellaneous
RL: USES (Uses)
(rapidly rewettable **hides** contg.)

IT Alcohols, compounds
RL: USES (Uses)
(fatty, ethoxylated, biol. stabilized **hide** treatment with, for rapid rewettability)

IT Alcohols, uses and miscellaneous
RL: USES (Uses)
(polyhydric, biol. stabilized **hide** treatment with, for rapid rewettability)

IT 127-09-3, Sodium acetate 141-53-7, Sodium formate 994-36-5, Sodium citrate 1344-28-1, Aluminum oxide, uses and miscellaneous 7647-14-5, **Sodium chloride**, uses and miscellaneous 14475-11-7, Sodium tartrate 55892-56-3, Basic aluminum sulfate 120909-28-6 120946-97-6, Busan 30L
RL: USES (Uses)
(**hide** treatment with)

IT 56-81-5, 1,2,3-Propanetriol, uses and miscellaneous 9016-45-9, Polyethylene glycol nonylphenol ether
RL: USES (Uses)
(**hide** treatment with, for rapid rewettability)

IT 7429-90-5D, Aluminum, salts
RL: USES (Uses)
(pretanning of **acrylic** resin-treated **hides** with)

L7 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1985:525343 CAPLUS
DN 103:125343
TI Filling and retanning of leather
IN Trandafir, Viorica; Diaconu, Ioan; Bradescu, Ioan; Suciu, Ionel; Coara, Gheorghe; Staicu, Patriche; Olteanu, Mihaela; Leca, Minodora; Mindru, Ilie
PA Tabacaria Minerala, Corabia, Rom.
SO Rom., 4 pp.
CODEN: RUXXA3
DT Patent
LA Romanian
IC C14C007-00
CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI RO 82794 | B | 19840523 | RO 1981-103506 | 19810224 |
| PRAI RO 1981-103506 | | 19810224 | | |

AB Leather is filled and retanned with compns. contg. collagen hydrolyzate and **acrylic** acid-Et **acrylate**-Me **methacrylate** copolymer (I) [25135-39-1]. Thus, acid or neutral 40% solns. of collagen hydrolyzate were heated with I 2.5 h at 40°. Treating bated **hide** in a 20-40% bath contg. 6-10% **NaCl** and 3.0-6.0% this compn. for 20-50 min at 20-35° and pH 6-8.5, adding 0.5-0.7% **HCO2H** as a 10% soln. at 25-30°, agitating, adding 0.4-0.6% **H2SO4** as a 10% soln. at 25-30°, agitating 3-6 h, and tanning with **Cr2O3** gave leather which was then further tanned, dyed, and oiled.

ST collagen hydrolyzed filler leather; **acrylate** copolymer filler leather; **methacrylate** copolymer filler leather; filler retanning leather

IT Collagens, uses and miscellaneous

RL: USES (Uses)
 (hydrolyzed, filler-retanning agents for leather)

IT Tanning materials
 (re-, fillers and, **acrylic** polymer-collagen hydrolyzate
 compns. as)

IT 25135-39-1
 RL: USES (Uses)
 (filler-retanning agent, for leather)

L7 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1985:115520 CAPLUS

DN 102:115520

TI Tanning leather

IN Prentiss, William Case; Price, David Noel

PA Rohm and Haas Co., USA

SO Eur. Pat. Appl., 22 pp.

CODEN: EPXXDW

DT Patent

LA English

IC C14C003-22

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 118213 | A1 | 19840912 | EP 1984-300681 | 19840203 |
| | EP 118213 | B1 | 19871209 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| | US 4526581 | A | 19850702 | US 1983-464236 | 19830207 |
| | ZA 8400406 | A | 19850327 | ZA 1984-406 | 19840119 |
| | CA 1203353 | A1 | 19860422 | CA 1984-445920 | 19840124 |
| | IN 159885 | A | 19870613 | IN 1984-DE69 | 19840124 |
| | JP 59147100 | A2 | 19840823 | JP 1984-14984 | 19840130 |
| | JP 04049880 | B4 | 19920812 | | |
| | BR 8400366 | A | 19850212 | BR 1984-366 | 19840130 |
| | AU 8424019 | A1 | 19840816 | AU 1984-24019 | 19840202 |
| | AU 565853 | B2 | 19871001 | | |
| | AT 31326 | E | 19871215 | AT 1984-300681 | 19840203 |
| | ES 529486 | A1 | 19851101 | ES 1984-529486 | 19840206 |
| PRAI | US 1983-464236 | | 19830207 | | |
| | EP 1984-300681 | | 19840203 | | |

AB Leather which may be flexible, with smooth grain, well-filled, and with good resistance to detanning by alk. solns. is tanned using copolymers of ≥ 60 mol% **methacrylic** acid and ≥ 5 mol% Cl-4 alkyl **acrylates**, having wt-av. mol wt. 3500-9000. Thus, 90 g **methacrylic** acid and 10 g Et **acrylate** were polymd. in H₂O using (NH₄)₂S₂O₈, and partially neutralized with NaOH to give Et **acrylate-methacrylic** acid copolymer Na salt (I) [41487-53-0] having wt-av. mol. wt. 5700. Pickled **hide** (1000 g) was drummed 6 h in a mixt. contg. 400 g 3% aq. **NaCl** and 400 g of the I soln., then fixation and exhaustion were completed by adding 50 mL 10% HCl, and drumming was continued 1.5 h until the liquor pH was 3.7. The shrinkage temp. of the leather obtained was 69.5°, and the exhaust efficiency 91% polymer uptake.

ST **methacrylic** acid copolymer tanning agent; alkyl **acrylate methacrylic** acid copolymer

IT Tanning materials

(**methacrylic** acid-alkyl **acrylate** copolymers)

IT **Acrylic** polymers, uses and miscellaneous

RL: USES (Uses)

(**methacrylic** acid-alkyl **acrylate** copolymers,
 tanning agents, for leather)

IT 25035-82-9 26589-39-9 41487-53-0

RL: USES (Uses)
(tanning agents, for leather)

L7 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1982:457485 CAPLUS

DN 97:57485

TI Tanned heavy leather

IN Beier, William C.; Hodder, James J.

PA Rohm and Haas Co., USA

SO U.S., 6 pp. Cont.-in-part of U.S. Ser. No. 69,470.

CODEN: USXXAM

DT Patent

LA English

IC C14C003-06; C14C003-08

NCL 008094190C

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | US 4334876 | A | 19820615 | US 1980-180175 | 19800821 |
| | US 4314802 | A | 19820209 | US 1979-69470 | 19790824 |
| | CA 1146302 | A1 | 19830517 | CA 1980-357949 | 19800811 |
| | JP 56059900 | A2 | 19810523 | JP 1980-115782 | 19800822 |
| | JP 63054040 | B4 | 19881026 | | |
| | ES 494900 | A1 | 19810901 | ES 1980-494900 | 19800823 |
| | ZA 8005251 | A | 19810930 | ZA 1980-5251 | 19800825 |
| | IN 154699 | A | 19841208 | IN 1980-DE688 | 19800922 |
| | IN 154677 | A | 19841208 | IN 1981-CA42 | 19810115 |
| PRAI | US 1979-69470 | | 19790824 | | |
| | GB 1980-551 | | 19800108 | | |
| | US 1980-180175 | | 19800821 | | |

AB Heavy leather useful for shoe soles, belts and straps, bags and cases, and saddles, bridles, and harnesses is prep'd. by a multiple-stage tanning process under carefully controlled pH conditions wherein the **hides** are 1st tanned with an aq. dispersion or soln. of an **acrylic** polymer and then retanned with a Zr tanning material having 0-45% basicity by the Schorlemmer scale. Thus, to a whole, pickled steer **hide** (pH 1.5-1.75) was added 200% (on wet **hide** wt.) of an aq. buffered weakly alk. soln. contg. **NaCl** 10, Borax 6, and **NaOAc** 1%, and the mixt. was agitated 5 h and stored overnight (~15 h) until the **hide** penetration was 100%, **hide** pH was ~4.75, and liquor pH was ~6.5. To the tanning vessel was added a soln. contg. 7.5% (on wet **hide** wt.) of a 40% solids soln. of a polymer prep'd. from ~90 parts **methacrylic** acid and ~10 parts sulfated castor oil, and the mixt. was agitated ~2 h until the soln. completely penetrated the **hide** while maintaining **hide** pH at 4.75-5.0 and liquor pH at ~4.8. To the bath was added 1.5% (on wet **hide** wt.) of **H2SO4** to adjust the liquor pH to ~2.8 and exhaust the 1st tannage. To the bath was added 12% (on wet **hide** wt.) in 3 equal portions of a Zr sulfate tanning material with sufficient **H2SO4** to give 0% basicity (Schorlemmer) while maintaining leather pH at 1.5-1.75 and liquor pH at ~1.2, and the mixt. was agitated ~2 h and stored overnight until the **hide** penetration by the Zr compn. was 100%. The retanned leather was neutralized to isoelec. pH by addn., with agitation, of 8% (or wet **hide** wt.) of aq. **NaHCO3** soln. in feeds contg. 0.5% **NaHCO3** at 15 min intervals. The neutralized mixt. was agitated 1 h until the leather pH was 3.75-4.25 and the liquor pH was ~4. The leather was washed, treated with oil and a moldicide, and crust. dried for later use. The leather had properties superior to those obtained by conventional tanning processes.

ST **acrylic** zirconium tanning heavy leather; **methacrylic** acid copolymer tanning; castor oil copolymer tanning

IT Castor oil
 RL: USES (Uses)
 (sulfated, polymers with **methacrylic** acid, tanning with zirconium salts and, of heavy leather)
 IT Tanning
 (**acrylic**-zirconium, of heavy leathers)
 IT Tanning materials
 (syntans, **methacrylic** and-sulfated castor oil polymers, in tanning of heavy leather)
 IT 14475-73-1
 RL: USES (Uses)
 (tanning with **acrylic** syntans and, of heavy leather)
 IT 79-41-4D, polymers with sulfated castor oil
 RL: USES (Uses)
 (tanning with zirconium salts and, of heavy leather)

L7 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1982:8482 CAPLUS

DN 96:8482

TI Tanning compositions containing aluminum salts

IN Feuer, Bernard Louis Arnaud

PA Rhone-Poulenc Industries S. A., Fr.

SO Fr. Demande, 29 pp.

CODEN: FRXXBL

DT Patent

LA French

IC C14C003-02; C14C003-04; C14C003-22; C08K003-30; C08L033-02

CC 45-2 (Industrial Organic Chemicals, Leather, Fats, and Waxes)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | FR 2463810 | A1 | 19810227 | FR 1979-21337 | 19790824 |
| | FR 2463810 | B1 | 19820625 | | |
| | BR 8005326 | A | 19810304 | BR 1980-5326 | 19800822 |
| | ES 494446 | A1 | 19810901 | ES 1980-494446 | 19800822 |
| PRAI | FR 1979-21337 | | 19790824 | | |

AB Storage-stable tanning compns. contain Al salts and poly[(meth)**acrylic** acids] or their salts with low mol. wt. Thus, pickled sheepskins are drummed with H2O 100, NaCl 10, and HCO2H 1.5% (based on **hide** wt.) and 7% poly(**acrylic** acid) [9003-01-4] soln. (40.05%, viscosity 280 cP) is added, drumming continued 1 h, Al2(SO4)3 added in 2 portions with a 1-h interval, drumming continued 6 h, and the mixt. basified with Na2CO3 to pH 4.8, left 24 h, rinsed, fatliquored, and dried to give leather which is soft, well filled out, and has shrinkage temp. 81°.

ST tanning agent leather; aluminum sulfate tanning leather; polyacrylic acid tanning leather

IT Tanning materials

(aluminum sulfate-poly(**acrylic** acid), storage-stable)

IT 9003-01-4 9003-04-7

RL: USES (Uses)

(tanning agents, contg. aluminum sulfate, storage-stable)

IT 10043-01-3

RL: USES (Uses)

(tanning agents, contg. poly(**acrylic** acid), storage-stable)

L7 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1981:482413 CAPLUS

DN 95:82413

TI Treatment of raw **hides**, skins and leathers to develop improved leathers

IN Joseph, Koithara Thomas; Rao, Koritala Panduranga; Nayudamma, Yelavarthy

PA Council of Scientific and Industrial Research (India), India
 SO Indian, 10 pp.
 CODEN: INXXAP
 DT Patent
 LA English
 IC C14C009-00
 CC 41-4 (Leather and Related Materials)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | IN 148356 | A | 19810124 | IN 1978-DE195 | 19780315 |
| PRAI | IN 1978-DE195 | | 19780315 | | |

AB Leather having improved phys. properties was prep'd. by graft copolymn. of **hides** or leather with vinyl monomers in the presence of free radical initiators in an acidic soln. at room temp. Thus, delimed or bated **hides** were pickled in **NaCl** 5-15, **H₂SO₄** 0.5-2.0, and **H₂O** 100-300% (on **hide** wt.) until the **hide** pH was 2.1-2.5. To the same bath was added nonionic or anionic wetting agent 4, **Me methacrylate** 10-20, and ceric ammonium sulfate (initiator) 1.0-1.5%, optionally flushing the whole bath 15-20 min with N. The drumming was continued 2-3 h after which the stock was left stationary and well immersed for a total grafting time of 12-15 h. The grafted stock was washed, neutralized, tanned, dyed, fatliquored, and finished in the usual way.

ST vinyl grafting **hide** leather; methyl **methacrylate** grafting **hide**

IT **Hide**

Leather

(vinyl-grafted, by free radical initiation in acidic soln.)

IT Polymerization

(graft, of vinyl monomers on **hides** and leather, by free radical initiation in acidic soln.)

IT 80-62-6D, polymers with **hides** and leather 96-33-3D, polymers with **hides** and leather 107-13-1D, polymers with **hides** and leather 140-88-5D, polymers with **hides** and leather

RL: USES (Uses)

(graft, by free radical initiation in acidic soln.)

L7 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1979:594648 CAPLUS

DN 91:194648

TI Tanning of pig skin

IN Nowicki, Wladyslaw; Szymutko, Wladzimierz; Dorczak, Marian; Mucha, Wincenty; Dela, Lucjan; Waclawiak, Wladyslaw; Radko, Tadeusz; Pawelec, Stanislaw

PA Poludniowe Zaklady Przemyslu Skorzaneego "Chelmek", Pol.

SO Pol., 2 pp.

CODEN: POXXA7

DT Patent

LA Polish

IC C14C003-28

CC 41-2 (Leather and Related Materials)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | PL 102546 | P | 19790430 | PL 1976-190272 | 19760608 |
| PRAI | PL 1976-190272 | | 19760608 | | |

AB The tanning of pigskins for shoe uppers was improved when the liming was conducted in 2 stages: 1st in water contg. only **Na₂S** and then adding a surfactant, **NaCl**, and **Ca(OH)₂**. Thus, softened, unhaired, and defatted pigskin **hides** were limed by tumbling in 2 vols. water contg. 2.5% (on **hide** wt.) **Na₂S** for 1 h. Then Siarczanol 0.1, molasses 0.1, **NaCl** 4, and **Ca(OH)₂** 3.5% were added and the tumbling continued for 10 h. The

hides were neutralized with (NH4)2SO4-lactic acid-molasses mixt.. pickled in solns. contg. NaCl and H2SO4, and tanned. The leathers were split, fatliquored, filled with low mol. wt. acrylic resins and casein, and coated with polyurethane lacquers.

ST liming pigskin shoe upper
IT Tanning
(of pigskins, 2-stage liming for)

L7 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1979:105672 CAPLUS

DN 90:105672

TI Leather tanning

IN Traeubel, Harro; Heinze, Helga

PA Bayer A.-G., Fed. Rep. Ger.

SO Ger. Offen., 14 pp. Addn. to Ger. Offen. 2,626,430.

CODEN: GWXXBX

DT Patent

LA German

IC C14C003-02

CC 41-3 (Leather and Related Materials)

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | DE 2755087 | A1 | 19781221 | DE 1977-2755087 | 19771210 |
| | GB 1581678 | A | 19801217 | GB 1977-24034 | 19770608 |
| PRAI | GB 1977-24034 | | 19770608 | | |
| | DE 1976-2626430 | | 19760612 | | |

AB **Hides** were pretreated by adding polymers of ethylenically unsatd. carboxylic acids to the pickle liquor prior to chrome tanning. Thus, 100 parts bated **hide** was pickled with NaCl 3, poly(acrylic acid) [9003-01-4] 3, and H2SO4 0.2 part in 11% H2O (on **hide** wt.) to pH 3.5. To the pickle liquor was added 6 parts powd. 33% basic Cr(III) sulfate with 26% Cr oxide content, and after 2 h, 0.67 part dolomite was added and milled 10 h. Final temp. was 40°, and final pH was 4.05. Chrome consumption was 0.13 g Cr2O3/L.

ST **hide** pretreatment polyacrylate chrome tanning

IT **Hide**

(tanning pretreatment of, with polyacrylates)

IT Tanning

(chrome, polyacrylate pretreatment for)

IT 9003-01-4 26984-25-8

RL: USES (Uses)

(**hide** pretreatment with, for chrome tanning)

L7 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1976:107114 CAPLUS

DN 84:107114

TI Complex basic zirconium and aluminum salts

IN Erdmann, Hans; Miller, Franz Friedrich

PA BASF A.-G., Fed. Rep. Ger.

SO Ger. Offen., 15 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C07C; C14C

CC 41-3 (Leather and Related Materials)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | DE 2425970 | A1 | 19760102 | DE 1974-2425970 | 19740530 |

| | | | | |
|----------------------|---|----------|----------------|----------|
| GB 1470723 | A | 19770421 | GB 1975-20061 | 19750513 |
| AU 7581207 | A1 | 19761118 | AU 1975-81207 | 19750515 |
| FI 7501483 | A | 19751201 | FI 1975-1483 | 19750521 |
| DD 120470 | C | 19760612 | DD 1975-186310 | 19750528 |
| AT 7504080 | A | 19760815 | AT 1975-4080 | 19750528 |
| AT 336164 | B | 19770425 | | |
| JP 51001601 | A2 | 19760108 | JP 1975-64417 | 19750530 |
| FR 2275435 | A1 | 19760116 | FR 1975-16948 | 19750530 |
| FR 2275435 | B1 | 19781013 | | |
| BR 7503418 | A | 19760504 | BR 1975-4382 | 19750530 |
| ES 438048 | A1 | 19770116 | ES 1975-438048 | 19750530 |
| US 4049379 | A | 19770920 | US 1976-706765 | 19760719 |
| PRAI DE 1974-2425970 | | 19740530 | | |
| US 1975-579885 | | 19750522 | | |
| AB | <p>The title salts were prepd. and used as tanning materials. Thus, to 0.9 l of a 2M soln. of zirconyl sulfuric acid [11117-80-9] (760 g H₂ZrO(SO₄)₂ = 252 g ZrO₂/l.) was added 0.1 ml. of a 2M soln. of Al chloride [7446-70-0] (483 g AlCl₃.6H₂O = 102 g Al₂O₃/l.), and to this mixt. with stirring was added 0.5 l. of a 2M Na₂CO₃ soln. (212 g Na₂CO₃/l.) and 0.5 l. of a 4 molar soln. of the Na salts of org. acids (272 g Na formate/l., 328 g Na acetate/l., 384 g Na propionate/l., 448 g Na lactate/l., 376 g Na acrylate/l., and 432 g Na methacrylate/l.). The resulting complex salt contained Zr:Al in molar ratio of 9:1 and contained in addn. 1 OH group/1 mole metal and 1 acid residue/1 mole metal. Delimed hides (100 parts) were pickled with 2 parts concd. H₂SO₄ and 6 parts NaCl in 70 parts H₂O. After 1 hr 60 vol. parts of the above tanning soln. were added to the pickle liquor, drummed 6 hr., neutralized to pH 4.2-4.6 with ~6.1 parts dolomite, drummed overnight, and horsed. The resulting leather was white and boilproof and lent itself well to dyeing.</p> | | | |
| ST | aluminum zirconium complex tanning | | | |
| IT | Tanning materials
(aluminum-zirconium basic complexes) | | | |
| IT | Aluminum, complexes with zirconylsulfuric acid and carboxylic acid salts
Aluminum chloride, reaction products with zirconylsulfuric acid and carboxylic acid sodium salts
Zirconate(1-), hydroxybis[sulfato(2-)-O]-, reaction products with aluminum chloride and carboxylic acid sodium salts
Zirconium, complexes with aluminum chloride and carboxylic acid salts | | | |
| RL | IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, for tanning) | | | |

L7 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1976:75738 CAPLUS

DN 84:75738

TI Composition for preservation of **hides**

IN Tserevitinov, B. F.; Kaspar'yants, S. A.; Mashukov, S. D.; Zurabyan, K. M.; Syachin, I. I.; Asylkazhaev, K. A.

PA USSR

SO U.S.S.R.

From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1975, 52(45), 70-1.

CODEN: URXXAF

DT Patent

LA Russian

IC C14C

CC 41-2 (Leather and Related Materials)

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|-------|----------|-----------------|----------|
| ----- | ----- | ----- | ----- | ----- |
| PI SU 494409 | T | 19751205 | SU 1974-1999859 | 19740214 |
| PRAI SU 1974-1999859 | | 19740214 | | |

AB For improving the quality of preserved **hides**, the title compns. comprised **NaCl** [7647-14-5] 20-40, hydroquinone [123-31-9] 0.002-0.008, penetrator 1.5-6.0, and **acrylic** acid polymer [9003-01-4] 5-15 g/l.

ST **hide** preservation **acrylic** polymer; **sodium chloride** **hide** preservation; hydroquinone **hide** preservation

IT **Hide**
(preservation of, with **acrylic** polymers, hydroquinone and **sodium chloride**)

IT 123-31-9, uses and miscellaneous 7647-14-5, uses and miscellaneous 9003-01-4

RL: USES (Uses)
(in **hide** preservation)

L7 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1973:454901 CAPLUS

DN 79:54901

TI Processing **hide** scraps

IN Kubitzky, Carl

SO Ger. Offen., 23 pp. Addn. to Ger. Offen. 2,057,314 (CA 78;5110f).

CODEN: GWXXBX

DT Patent

LA German

IC C08H; D01F; D06N

CC 41-2 (Leather and Related Materials)

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------|----------|-----------------|----------|
| PI DE 2154494 | A1 | 19730607 | DE 1971-2154494 | 19711102 |
| PRAI DE 1971-2154494 | | 19711102 | | |

AB Comminuted, dried **hide** scraps were dissolved or swollen at high temp. in a mixt. contg. .geq.1 polyol, and .geq.1 amine and (or) .geq.1 amide and (or) Na thiocyanate [540-72-7] and the swollen material dissolved in aq. NaOH to give spinnable or castable solns. that could be combined with other polymers. Thus, a mixt. contg. NaSCN, diethylene glycol [111-46-6], glycerin [56-81-5], and air-dried (moisture content .sim.13 %) finely comminuted pelt scraps was heated 2 hr at 85-90.deg. to give swollen scraps. The swollen scraps were shaken 3-4 hrs with aq. NaOH at 20.deg. and shaken 1 hr at 20.deg. with CS2. The resulting soln. was filtered, acidified, and treated with **NaCl** and the pptd. collagen sepd. and dissolved in DMF. The DMF soln. was mixed with Bu **acrylate**-vinyl acetate copolymer [25067-01-0], AcH, and dye to give a soln. which could be spun into fibers or be used as antistatic or tanning agents.

ST **hide** scrap recycling; thiocyanate treatment **hide**; polyol treatment **hide**; glycerol treatment **hide**; glycol treatment **hide**

IT Antistatic agents

Tanning materials

(butyl **acrylate**-vinyl acetate polymers, contg. collagen)

IT Synthetic fibers

RL: USES (Uses)

(butyl **acrylate**-vinyl acetate, contg. collagen)

IT Collagens, uses and miscellaneous

RL: USES (Uses)

(mixt. with butyl **acrylate**-vinyl acetate polymer, for antistatic or tanning agents for synthetic fibers)

IT **Hide**

(waste, recycling of)

IT 56-81-5, uses and miscellaneous 111-46-6, uses and miscellaneous 540-72-7

RL: USES (Uses)

(in dissolving of **hide** scraps)

IT 25067-01-0

RL: USES (Uses)
(mixt. with collagen, for antistatic or tanning agents for synthetic fibers)

L7 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1970:101874 CAPLUS
DN 72:101874
TI Polyacrylic tanning aids
IN Neel, Jean; Gagne, Pierre
PA PROGIL S. A.
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
IC C14C
CC 41 (Leather and Related Materials)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------|------|----------|------------------|----------|
| PI | DE 1930225 | A | 19700219 | DE 1969-1930225 | 19690613 |
| | DE 1930225 | C3 | 19730719 | | |
| | FR 1601410 | A | 19700824 | FR 1968-69050103 | 19680614 |
| PRAI | FR 1968-69050103 | | 19680614 | | |

AB The title items consist of copolymers of unsatd. org. acids and quaternized tertiary amines contg. ≤ 1 copolymerizable double bond. Thus, **acrylic** acid (65% solids) 155, [2-(**methacryloyloxy**)ethyl](trimethyl)ammonium Me sulfate (80% solids) 31.5, Cu(OAc)₂ 0.7, and water 350 parts was slowly added to 700 parts water and 4 parts vol. H₂O₂ at 85°, warmed to reflux, and refluxed during 4 hr addn. time, during which 21 parts vol. H₂O₂ was also added. The product soln., which contained 10% wt. copolymer, was passed over an ion exchange resin to remove the Cu and concd. to a 20% soln. (A) which was nearly colorless and had Engler viscosity 1.5 at 20°. A steeped, dehaired, fleshed, delimed sheepskin was pickled, defatted with a petroleum-PhCl mixt., tumbled 30 min in a fulling mill with a mild pickling compn. contg. water 100, HCO₂H 0.2, and NaCl 5% (based on squeezed **hide** wt.), mixed with 5% (based on squeezed **hide** wt.) A, rotated 1 min, mixed with 10% (based on squeezed wt.) basic Cr sulfate in 3 portions, tumbled 3 hr, and allowed to stand 12 hr. The bath was adjusted to pH 3.9 with Na₂CO₃ and the **hides** were stacked for 48 hr, fat liquored, stacked, and dried. This leather showed a regular, adherent grain layer, was white with a violet tint, and was significantly whiter than the leather tanned similarly without the addn. of A. This leather had good dyeability with Acid Brown ETC and other leather dyes. These products give leathers with excellent dyeability and an adherent grain layer. The use of **methacrylic** acid, fumaric acid, itaconic acid, and suitably quaternized dimethylaminoethyl **acrylate** or dimethylamino-2-hydroxypropyl **acrylate** or **methacrylate** as monomers was also claimed.

ST tanning auxiliaries polymers; aminoalkyl **acrylates** quaternized copolymers; **acryloyloxyalkylammonium** compds copolymers; copolymers **acryloyloxyalkylammonium** compds; **acrylic** acids copolymers

IT Tanning materials
(syntans, from **acrylic** acid polymers)

IT 27322-51-6

RL: USES (Uses)
(for tanning)

L7 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1964:10650 CAPLUS
DN 60:10650

OREF 60:1947b-c

TI Sheepskin-a valuable material for the leather industry

AU Zhulin, A. P.

SO Kozh. Obuvn. Prom. (1963), 5(7), 6-9

DT Journal

LA Unavailable

CC 55 (Leather and Glue)

AB Sheepskins (I) used for shoe upper leather must have a higher tear strength, esp. a higher grain tear resistance. To attain this, bating is prolonged to 45-60 min. After 15 min. running, Nekal is added to intensify bating. Degreased I pelts are put in 50% H₂O at 32-35° with 3% NaCl and 0.2% HCHO (40%) dild. with 2% H₂O (on pelt wt.). After 15 min. drumming, 1% KAl(SO₄)₃.12H₂O or Al₂(SO₄)₃.18H₂O are added. I are then tanned with an ext. contg. 1.5% Cr₂O₃. After fatliquoring, I are treated with a kerosine emulsion. Finally, 0.2% HCHO (40%) is added to fix the fat liquor. Grain tear resistance is 1.52-1.62 kg./sq. mm. Shaving is reduced to a min. I upper leather has 1.2 mm. thickness; heavier I, which would need more shaving, are used for other purposes. During fatliquoring, 4% (dry substance) acrylic emulsion A or latex SKS-30-1 is added.

IT **Hides**

(prep. sheepskin, for shoe upper leather manuf.)

IT Leather

(sheepskin shoe upper)

L7 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2003 ACS

Full Text

AN 1957:32374 CAPLUS

DN 51:32374

OREF 51:6196f-h

TI Upholstery leather

PA Council of Scientific and Industrial Research

DT Patent

LA Unavailable

CC 29 (Leather and Glue)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------------|------|------|-----------------|------|
|--|------------|------|------|-----------------|------|

PI IN 53196 19561010 IN

AB Tanned **hides** are soaked in water, hosed up overnight, and split and shaved to 1.2-1.5 mm. The split **hides** are sammmed and then stripped with 1-1.5% borax or 2-4% hypo. They are then pickled with 0.5% H₂SO₄, 5% NaCl, and 80% H₂O for 2 hrs. The percentages are based on wt. of the sammmed leather. Al basic or normal salts in an amt. of 10-15% of the sammmed leather are added to the pickling bath. In the case of normal salts, 0.5-1.5% of a masking agent, such as citric or tartaric acid or their salts, is added before increasing the pH of the tanning bath to 4.0-4.5 by addn. of 2-4% soda, 3-5% hypo, etc. The **hides** are drummed in the tanning bath for 6-8 hrs., hosed up, and left overnight. If necessary, they are surface dyed at 30-45° with an acid dye for 0.5-1 hr. and fat-liquored at about 50° for about 1 hr. The leather is then strained, staked, seasoned, and finished with an acrylic resin-pigment mixt.

IT Leather

(fat-liquoring of Al salt-tanned snakeskin)

IT Coating(s)

(of leather, with acrylic resin-pigment mixt., for upholstery)

IT Leather

(upholstery, Al salt-tanned acrylic resinpigment mixt.-finished)

IT Aluminum salts

STN Columbus

(leather (upholstery) treatment with)

| | | | |
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| | ENTRY | SESSION | |
| FULL ESTIMATED COST | 68.09 | 68.30 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
| CA SUBSCRIBER PRICE | -11.07 | -11.07 | |

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| FULL ESTIMATED COST | 1.80 | 70.10 | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL | |
| | ENTRY | SESSION | |
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